

American Pale Ale

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **26**
- SRM **4.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **22 liter(s)**
- Total mash volume **27.5 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22 liter(s)** of strike water to **69.5C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **11.3 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (81.8%)	80 %	5
Grain	Pszeniczny	1 kg (18.2%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	10 %
Aroma (end of boil)	Cascade PL	25 g	5 min	5.2 %
Aroma (end of boil)	Centennial	20 g	5 min	10.5 %
Aroma (end of boil)	Lublin (Lubelski)	10 g	5 min	4 %
Aroma (end of boil)	Citra	15 g	5 min	12 %
Whirlpool	Cascade PL	55 g	0 min	5.2 %
Whirlpool	Centennial	40 g	0 min	10.5 %
Whirlpool	Lublin (Lubelski)	15 g	0 min	4 %
Whirlpool	Citra	35 g	0 min	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
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Safale US-05	Ale	Slant	150 ml	Fermentis
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Extras

Type	Name	Amount	Use for	Time
Fining	Mech Irlandzki	5 g	Boil	15 min